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1 [Dynamic test input generation for database applications](#)



Michael Emmi, Rupak Majumdar, Koushik Sen

 July 2007 ISSA '07: Proceedings of the 2007 international symposium on
Software testing and analysis

Publisher: ACM

 Full text available: pdf(219.99 KB) Additional Information: full citation, abstract,
references, index terms

We describe an algorithm for automatic test input generation for database applications. Given a program in an imperative language that interacts with a database through API calls, our algorithm generates both input data for the program as well as suitable ...

Keywords: automatic test generation, concolic testing, database applications, directed random testing

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2 [Patterns of text: in honour of Michael Hoey](#)

Graeme Hirst

December 2002 Computational Linguistics, Volume 28 Issue 4

Publisher: MIT Press

 Full text available: pdf(290.97 KB) Additional Information: full citation, references, index
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3 [A logical view of structured files](#)

Serge Abiteboul, Sophie Cluet, Tova Milo

 May 1998 The VLDB Journal — The International Journal on Very
Large Data Bases, Volume 7 Issue 2

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(268.29 KB) Additional Information: full citation, abstract,
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Structured data stored in files can benefit from standard database technology. In particular, we show here how such data can be queried and updated using declarative database languages. We introduce the

notion of *structuring schema*, which consists ...

Keywords: Database, File system, Query, Query and update optimization, Textual data, Update

4 Robust location search from text queries



Vibhuti Sengar, Tanuja Joshi, Joseph Joy, Samarth Prakash, Kentaro Toyama

November 2007 GIS '07: Proceedings of the 15th annual ACM international symposium on Advances in geographic information systems

Publisher: ACM

Full text available: [pdf\(596.27 KB\)](#) Additional Information: full citation, abstract, references, index terms

Robust, global, address geocoding is challenging because there is no single address format that applies to all geographies, and in any case, users may not restrict themselves to well-formed addresses. Particularly in online mapping systems, users frequently ...

Keywords: ambiguous spatial queries, geocoding, location search

5 Implementing sorting in database systems



Goetz Graefe

September 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 3

Publisher: ACM

Full text available: [pdf\(518.63 KB\)](#) Additional Information: full citation, abstract, references, index terms

Most commercial database systems do (or should) exploit many sorting techniques that are publicly known, but not readily available in the research literature. These techniques improve both sort performance on modern computer systems and the ability to ...

Keywords: Key normalization, asynchronous read-ahead, compression, dynamic memory resource allocation, forecasting, graceful degradation, index operations, key conditioning, nested iteration

6 The extended XQL for querying and updating large XML databases



Raymond K. Wong

November 2001 DocEng '01: Proceedings of the 2001 ACM Symposium on Document engineering

Publisher: ACM

Full text available: [pdf\(117.62 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms

XQL has been argued as just a model for asking for specific sets of elements with very limited query capability. This paper proposes several extensions of XQL to address the issues. The extensions include full-text indexed search, path variables, joins, ...

7 Review of "Empirical methods for exploiting parallel texts" by I. Dan

[Melamed, Cambridge, MA: MIT Press, 2001](#)

Ted Pedersen

June 2002 Computational Linguistics, Volume 28 Issue 2

Publisher: MIT Press

Full text available:  [pdf\(242.09 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)


8 [Inverted files for text search engines](#)



Justin Zobel, Alistair Moffat

July 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 2

Publisher: ACM

Full text available:  [pdf\(944.29 KB\)](#)

Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

The technology underlying text search engines has advanced dramatically in the past decade. The development of a family of new index representations has led to a wide range of innovations in index storage, index construction, and query evaluation. While ...


Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retrieval

9 [TIMBER: A native XML database](#)

H. V. Jagadish, S. Al-Khalifa, A. Chapman, L. V. S. Lakshmanan, A. Nierman, S. Paparizos, J. M. Patel, D. Srivastava, N. Wiwatwattana, Y. Wu, C. Yu

December 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(268.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

This paper describes the overall design and architecture of the Timber XML database system currently being implemented at the University of Michigan. The system is based upon a bulk algebra for manipulating trees, and natively stores XML. New access ...

Keywords: Algebra, Document management, Hierarchical, Query processing, Semi-structured

10 [Index structures and algorithms for querying disributed RDF repositories](#)



Heiner Stuckenschmidt, Richard Vdovjak, Geert-Jan Houben, Jeen Broekstra
May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web

Publisher: ACM

Full text available:  [pdf\(314.59 KB\)](#)

Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

A technical infrastructure for storing, querying and managing RDFdata is

a key element in the current semantic web development. Systems like Jena, Sesame or the ICS-FORTH RDF Suite are widelyused for building semantic web applications. Currently, none ...

Keywords: RDF querying, index structures, optimization

11 The automatic generation of formal annotations in a multimedia indexing and searching environment


Thierry Declerck, Peter Wittenburg, Hamish Cunningham

July 2001 Proceedings of the workshop on Human Language

Technology and Knowledge Management - Volume 2001,

Volume 2001

Publisher: Association for Computational Linguistics

Full text available:  pdf(193.79 KB) Additional Information: full citation, abstract, references, cited by

We describe in this paper the MU-MIS Project (Multimedia Indexing and Searching Environment), which is concerned with the development and integration of base technologies, demonstrated within a laboratory prototype, to support automated multimedia indexing ...


12 Efficiently linking text documents with relevant structured information

Venkatesan T. Chakaravarthy, Himanshu Gupta, Prasan Roy, Mukesh

Mohanias

September 2006 VLDB '06: Proceedings of the 32nd international conference on Very large data bases

Publisher: VLDB Endowment

Full text available:  pdf(599.27 KB) Additional Information: full citation, abstract, references, index terms


Faced with growing knowledge management needs, enterprises are increasingly realizing the importance of interlinking critical business information distributed across structured and unstructured data sources. We present a novel system, called EROCS, for ...

13 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann


December 2002 The VLDB Journal — The International Journal on Very Large Data Bases. Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.


Full text available:  pdf(309.97 KB) Additional Information: full citation, abstract, references, cited by, index terms

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management ...

Keywords: Database, XML

14 [Query expansion using random walk models](#)
 Kevyn Collins-Thompson, Jamie Callan


October 2005 CI KM '05: Proceedings of the 14th ACM international conference on Information and knowledge management
 Publisher: ACM

Full text available:  pdf(194.63 KB)


Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

It has long been recognized that capturing term relationships is an important aspect of information retrieval. Even with large amounts of data, we usually only have significant evidence for a fraction of all potential term pairs. It is therefore important ...

Keywords: pseudo-relevance feedback, query expansion, random walk, semi-supervised learning

15 [The state of the art in distributed query processing](#)
 Donald Kossmann


December 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 4
 Publisher: ACM

Full text available:  pdf(455.39 KB)


Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network ...

Keywords: caching, client-server databases, database application systems, dissemination-based information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

16 [Similarity analysis on government regulations](#)
 Gloria T. Lau, Kincho H. Law, Gio Wiederhold

August 2003 KDD '03: Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining
 Publisher: ACM

Full text available:  pdf(254.75 KB)


Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

Government regulations are semi-structured text documents that are often voluminous, heavily cross-referenced between provisions and even ambiguous. Multiple sources of regulations lead to difficulties in both understanding and complying with all applicable ...

Keywords: legal informatics, regulations, similarity analysis, text mining

17 [An XML query engine for network-bound data](#)


Zachary G. Ives, A. Y. Halevy, D. S. Weld
 December 2002 The VLDB Journal — The International Journal on Very
 Large Data Bases. Volume 11 Issue 4
 Publisher: Springer-Verlag New York, Inc.


Full text available:  pdf(351.36 KB) Additional Information: full citation, abstract,
 references, cited by, index
 terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

18 From thesaurus to ontology


 B. J. Wielinga, A. Th. Schreiber, J. Wielemaker, J. A. C. Sandberg
 October 2001 K-CAP '01: Proceedings of the 1st international conference on
 Knowledge capture
 Publisher: ACM


Full text available:  pdf(391.31 KB) Additional Information: full citation, abstract,
 references, cited by, index
 terms

Thesauri such as the Art and Architecture Thesaurus (AAT) provide structured vocabularies for describing art objects. However, if we want to create a knowledge-rich description of an (image of an) art object, such as required by the "semantic web", thesauri ...

Keywords: image indexing, ontology construction, thesaurus, web standards

19 Structuring interactive TV documents

 Rudinei Goularte, Edson dos Santos Moreira, Maria da Graça C. Pimentel
 November 2003 DocEng '03: Proceedings of the 2003 ACM symposium on
 Document engineering
 Publisher: ACM


Full text available:  pdf(1.31 MB) Additional Information: full citation, abstract, references,
 cited by, index terms

Interactive video technology is meant to support user-interaction with video *in scene* objects associated with navigation in video segments and access to text-based metadata. Interactive TV is one of the most important applications of this area, ...

Keywords: MPEG-7, XLink, interactive TV, media descriptions, metadata

20 Building lexical semantic representations for natural language instructions

Elena Terenzi, Barbara Di Eugenio
 May 2003 NAACL '03: Proceedings of the 2003 Conference of the
 North American Chapter of the Association for

Computational Linguistics on Human Language Technology:
companion volume of the Proceedings of HLT-NAACL 2003-
short papers - Volume 2, Volume 2
Publisher: Association for Computational Linguistics
Full text available:  pdf (44.98 KB) Additional Information: full citation, abstract, references





We report on our work to automatically build a corpus of instructional text annotated with lexical semantics information. We have coupled the parser LCFLEX with a lexicon and ontology derived from two lexical resources, Verb-Net for verbs and CoreLex ...

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